

---

*North America's Leader in Hazardous Material Information Management*  
*1905 Aston Avenue, Carlsbad, CA 92008*  
*Phone (800) 451-8346 Fax (760) 602-8888*

---

## MSDS PRODUCT INFORMATION

Date: 10/07/2005  
To: MSDS Requester  
From: 3E Company  
Subject: The MSDS you have requested

☐ MSDS NOT REQUIRED

In response to your request for a Material Safety Data Sheet, according to the OSHA Hazard Communication Standard (Right-to-Know), the following item is an article. Articles are defined in 29 CFR 1910.1200(c). Products such as Drugs, cosmetics, food, or alcoholic beverages, wood or wood products, and tobacco or tobacco products, as defined in 29 CFR 1910.1200(b)(6), are exempt from the Hazard Communication Standard. Items that are considered articles, as defined in 29 CFR 1910.1200(c), are also exempt from this Standard. Therefore, the manufacturer is not required to provide an MSDS for this product.

☒ MSDS DISCONTINUED PRODUCT

In response to your request for a Material Safety Data Sheet, the manufacturer has discontinued the product listed below. The MSDS Attached is the most current version, or an MSDS is no longer available.

☐ MSDS BEST COPY AVAILABLE

The MSDS attached is the best copy available from the manufacturer.

☐ MANUFACTURER NO LONGER IN BUSINESS

In response to your request for a Material Safety Data Sheet, a current MSDS could not be obtained for this product. It has been determined that the manufacturer listed below is no longer in business. A current address and phone number could not be located.

Manufacturer: Solaris Group

Product Name: HI-POWER Indoor Insect Fogger Formula IV (DISCONTINUED)



---

**3E COMPANY** *North America's Leader in Hazardous Material Information Management*  
1905 Aston Avenue, Carlsbad, CA 92008  
Phone (800) 451-8346 Fax (760) 602-8856

<b>MSDS DISCONTINUED PRODUCT</b>
----------------------------------

**Date:** 10/23/2001

**To:** MSDS Requester

**From:** 3E Company

**Subject:** The MSDS you have requested

**In response to your request for a Material Safety Data Sheet, the manufacturer has discontinued the product listed below. The MSDS attached is the most current version, or an MSDS is no longer available.**

**Manufacturer:** Solaris Group

**ProductName:** HI-POWER Indoor Insect Fogger Formula IV (DISCONTINUED)

# MATERIAL SAFETY DATA SHEET

DATE PREPARED: 07/20/1995

SOLARIS

MSDS No: 5714

**ORTHO® HI-POWER® BRAND Indoor Insect Fogger**

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** ORTHO® HI-POWER® BRAND Indoor Insect Fogger

**PRODUCT DESCRIPTION:** Fogger

### MANUFACTURER

The SOLARIS Group

of Monsanto Company

P.O. Box 5008

San Ramon, CA 94583-0808

### 24 HR. EMERGENCY TELEPHONE NUMBERS

**Emergency Phone** 800-454-2333

**EPA REG. NO.:** 239-2626 **PN:** 1000-112B

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS Registry #
Pyrethrum, Pyrethrins	0.05	8003-34-7
Permethrin, Permethrin	0.4	52645-53-1
MGK 264 Insecticide Synergist, N-octyl bicycloheptene dicarboximide	0.4	113-48-4
INERT INGREDIENTS	~ 99.15	

"Inert Ingredients" is a term defined by the U.S. Environmental Protection Agency under the Federal Insecticide, Fungicide, and Rodenticide Act (40 CFR 158.153). It refers to any substance, other than an active ingredient, which is intentionally added to a pesticide product. Some inert ingredients may be hazardous chemicals, as defined by the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). The hazards associated with these inert ingredients have been included in this document

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Clear light yellow liquid in aerosol container

**IMMEDIATE CONCERNS:** - HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN

- DO NOT BREATHE VAPOR OR SPRAY MIST

- AVOID CONTACT WITH EYES, SKIN OR CLOTHING

- KEEP OUT OF REACH OF CHILDREN

#### POTENTIAL HEALTH EFFECTS

**EYES:** Eye contact may include discomfort, tearing, swelling, redness, and blurred vision. See Toxicology Information, section (11).

**SKIN:** This substance is not expected to cause prolonged or significant skin irritation. If absorbed through the skin, this substance is considered practically non-toxic to internal organs. See Toxicological Information, section 11.

**INGESTION:** Ingestion may cause irritation of the digestive tract which may include nausea, vomiting, and diarrhea. If swallowed, this substance is considered practically non-toxic to internal organs. See Toxicological Information, section 11.

**INHALATION:** This substance is slightly toxic to internal organs if inhaled. The degree of injury will depend on the airborne concentration and duration of exposure. This substance may be irritating if inhaled. See Toxicological Information, section 11

---

### 4. FIRST AID MEASURES

**EYES:** Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. Call a physician if irritation persists.

**SKIN:** If on skin, remove contaminated clothing, wash skin with plenty of soap and water. Wash contaminated clothing before reuse. If irritation persists, see a doctor

**INGESTION:** If swallowed, drink 1 or 2 glasses of water and induce vomiting by touching the back of the throat with finger. If possible, contact a physician, Poison Control Center, or emergency center before inducing vomiting. Do not induce vomiting or give anything by mouth to an unconscious person. Take person and product container to the nearest emergency treatment center

**INHALATION:** Remove victim to fresh air. Apply artificial respiration if indicated

**ADDITIONAL INFORMATION:** In case of medical emergencies involving this product, call day or night. (800) 454-2333.

---

## 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** 165°F TAG CC

**FLAMMABLE CLASS:** N.F.P.A (Code 30B) Level I Aerosol

**EXTINGUISHING MEDIA:** Alcohol Foam, CO<sub>2</sub>, Dry Chemical, Water Fog

**FIRE FIGHTING PROCEDURES:** Smoke from fires involving this material may present unusual hazards. Avoid breathing smoke and mists. Avoid contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Read the entire document.

---

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Soak up spilled material with paper towels and discard in trash.

**LARGE SPILL:** Eliminate all sources of ignition in vicinity of spill or released vapor.

Liquid spills on floor or other impervious surfaces should be contained or diked, and should be absorbed with attapulgite, bentonite or other absorbent material. Collect contaminated absorbent, place in plastic-lined metal drum and dispose of in accordance with instructions provided under Section 13, "DISPOSAL". Thoroughly scrub floor or other impervious surface with a strong industrial type detergent solution and rinse with water.

For liquid spills that soak into the ground, contact the applicable Federal, State and or County Health Dept. for disposal recommendations. If disposal is required then refer to Section 13 "DISPOSAL" for instructions.

Leaking containers should be separated from non-leakers and either the container or its contents transferred to a drum or other non-leaking container and disposed of in accordance with instructions provided under Section 13 "Disposal". Any recovered spilled liquid should be similarly collected and disposed of.

Do not contaminate water, foodstuffs or feed by storage or disposal.

**GENERAL PROCEDURES:** Observe all protection and safety precautions when cleaning up spills -- see Section 8. "EXPOSURE CONTROLS/PERSONAL PROTECTION". For help with any spill, leak, fire or exposure involving this material, call day or night (800) 454-2333.

---

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL. Store in accordance with NFPA 30B for a Level I aerosol. DO NOT USE OR STORE near flame, sparks or hot surfaces. USE ONLY IN WELL VENTILATED AREA CONTAINER UNDER PRESSURE. Exposure to heat or prolonged exposure to sun may cause container to burst. Do not puncture, incinerate or store above 130°F.

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** No special ventilation is normally required. However, if operating conditions create airborne concentrations which exceed the recommended exposure standards (in Section 8), then special ventilation may be required.

### PERSONAL PROTECTION

**EYES AND FACE:** For application of product in accordance with label instructions, no special eye protection is needed.

Handling of the product is not likely to present an eye exposure concern during normal handling. In the event of an accidental discharge of the material during manufacture or handling which could cause eye contact, workers should wear goggles or a face shield.

**SKIN:** No special skin protection is usually necessary. Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing protective clothing. Wash thoroughly with soap and water after handling.

**RESPIRATORY:** Handling of the product is not likely to present an airborne exposure concern during normal handling. In the event of an accidental discharge of the material during manufacture or handling which produces a heavy mist, workers should put on respiratory protection equipment. Consult respirator manufacturer to determine appropriate type of equipment. Observe respirator use limitations specified by NIOSH MSHA or the manufacturer.

For application of product in accordance with label instructions, no special respiratory protection is required.

### OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

EXPOSURE LIMITS			
Chemical Name	OSHA PEL	ACGIH TLV	ACGIH STEL
Pyrethrins	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	None
Permethrin	None	None	None
Propane/Isobutane	1800 mg/m <sup>3</sup>	None	None
(Asphyxiant)			
Aromatic Hydrocarbon Blend	None	None	None

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Aerosol

**ODOR:** Slight solvent odor.

**APPEARANCE:** Clear light yellow liquid in aerosol container

**PERCENT VOLATILE:** No Data Available

**VAPOR PRESSURE:** No Data Available

**BOILING POINT:** No Data Available

**FREEZING POINT:** No Data Available

**SOLUBILITY IN WATER:** Miscible with water.

**EVAPORATION RATE:** No Data Available

**DENSITY:** 8.13 at 22°C

**SPECIFIC GRAVITY:** 0.975 at 22°C

**VISCOSITY:** 2875cps (Brookfield ) at 20°C

### COMMENTS:

**pH:** 6.75 @ 4% Solution in water.

---

## 10. STABILITY AND REACTIVITY

**STABLE:** YES

**HAZARDOUS POLYMERIZATION:** NO

**CONDITIONS TO AVOID:** Avoid contact with temps. above 130F. Contents under pressure.

**HAZARDOUS DECOMPOSITION:** Exposure to heat or strong oxidizers may produce chlorine and hydrogen chloride

**INCOMPATIBLE MATERIALS:** May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

---

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**EYES:** This product when tested in the eyes of rabbits demonstrated a low degree of irritation. All eyes were normal by day 4 except one animal that demonstrated slight conjunctivitis through day 7. All eyes were normal on day 14.

**DERMAL LD<sub>50</sub>:** This product has demonstrated a low degree of skin irritation when applied to the skin of rabbits. The primary irritation scores for two tests were 0.54/8.0 and 1.62/8.0

The product did not demonstrate any skin sensitization potential in the Modified Buehler Guinea Pig Skin Sensitization study.

The product demonstrated a low degree of dermal systemic toxicity. The dermal acute LD50 is greater than 2.0 gm/kg.

**ORAL LD<sub>50</sub>:** ACUTE EFFECTS: This product has demonstrated a low degree of systemic toxicity. The acute oral LD50 is greater than 5.0 gm/kg

**INHALATION LC<sub>50</sub>:** ACUTE EFFECTS. This product has a low order of inhalation toxicity. The acute inhalation LC50 is greater than 5.98 mg/l as determined in a 4-hour rat inhalation exposure study

### CARCINOGENICITY:

**IARC:** Permethrin, one of the active ingredients in this product, has been designated as a possible human carcinogen (Group C) by the U.S. EPA.

---

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** No data available.

**ECOTOXICOLOGICAL INFORMATION:** No data available.

---

## 13. DISPOSAL CONSIDERATIONS

**FOR LARGE SPILLS:** Material collected that cannot be reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, State or local procedures.

**PRODUCT DISPOSAL:** The Solaris Group is committed to responsible environmental practices and recommends that all of the product be used up, carefully following all label directions and precautions.



If necessary to dispose of partially filled product containers, then replace cap and discard in the trash. Do not incinerate, puncture or discard in home trash compactor.

**EMPTY CONTAINER:** Replace cap and discard container in trash.

---

## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Consumer Commodity

**PRIMARY HAZARD CLASS/DIVISION:** ORM-D

**UN/NA NUMBER:** None

**PACKING GROUP:** No

**U.S. SURFACE FREIGHT CLASS:** NMFC NBR. 102120

### AIR (ICAO/IATA)

**PROPER SHIPPING NAME:** Consumer Commodity

**SPECIAL SHIPPING NOTES:** The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

---

## 15. REGULATORY INFORMATION

### UNITED STATES

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA				
ACUTE:	CHRONIC:	FIRE:	REACTIVITY:	PRESSURE
YES	NO	YES	NO	GENERATING: YES

**313 REPORTABLE INGREDIENTS:** Permethrin. (CAS 52645-53-1) De Minimis Concentration for Section 313 of EPCRA is 1.0%.

#### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA RQ:** Pyrethrins = 1 Lb.

## **TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA REGULATORY:** All non FIFRA regulated components are on the US EPA's TSCA Inventory List.

---

## **16. OTHER INFORMATION**

### **HMIS CODES**

**FIRE: 4 HEALTH: 1 REACTIVITY: 0 PROTECTION: -**

### **NFPA CODES**

**FIRE: 4 HEALTH: 1 REACTIVITY: 0 SPECIAL: -**

**APPROVAL DATE:** 09/19/1995

**REVISION SUMMARY** New MSDS

**COMMENTS:** For additional information concerning this product, call the SOLARIS Groups Consumer Helpline at 800-225-2883.

**MANUFACTURER DISCLAIMER:** This Material Safety Data Sheet (MSDS) contains health, safety and environmental information for you and your employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the product label. Information contained in this MSDS will help you to prepare for emergency response and to meet community right-to-know, emergency response and reporting requirements under SARA Title III and many other laws. Emergency response agencies and health care providers will also find this additional information useful.

Use of this product is regulated by the U.S. Environmental Protection Agency (EPA) through the approved label copy. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, Monsanto Company and The Solaris Group make no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determinations as to its suitability for their purposes prior to use. In no event will Monsanto Company or The Solaris Group be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.